RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/523,893A_
Source: _PCT/IP_
Date Processed by STIC: _1/9/06_

ENTERED

/

CRF Errors Edited by the STIC Systems Branch

Serial Number: __10/523,893A__   CRF Edit Date: __1/11/06__
                                        Edited by: __&__

____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

____ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

____ Inserted mandatory headings/numeric identifiers, specifically:

_____

____ Moved responses to same line as heading/numeric identifier, specifically:

_____

____ Other:

_____
_____
_____

Revised 09/09/2003

P

RAW SEQUENCE LISTING   DATE: 01/11/2006
PATENT APPLICATION: **US/10/523,893A**   TIME: 12:16:19

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01112006\J523893A.raw**

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 3 <110> APPLICANT: Lowery, David E.
 4        Smith, Valdin G.
 5        Kubiak, Teresa M.
 6        Larsen, Martha J.
 8 <120> TITLE OF INVENTION: Drosophila G Protein Coupled Receptors, Nucleic Acids, and
 9        Methods Related to the Same
11 <130> FILE REFERENCE: PHRM0002-105
13 <140> CURRENT APPLICATION NUMBER: US 10/523,893A
14 <141> CURRENT FILING DATE: 2005-02-04
16 <150> PRIOR APPLICATION NUMBER: US 10/283,423
17 <151> PRIOR FILING DATE: 2002-10-30
19 <150> PRIOR APPLICATION NUMBER: US 09/693,746
20 <151> PRIOR FILING DATE: 2000-10-20
22 <150> PRIOR APPLICATION NUMBER: US 09/425,676
23 <151> PRIOR FILING DATE: 1999-10-22
25 <160> NUMBER OF SEQ ID NOS: 232
27 <170> SOFTWARE: PatentIn version 3.3
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30 <211> LENGTH: 1803
31 <212> TYPE: DNA
32 <213> ORGANISM: D. melanogaster
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39 atcttggcgg atgtggctgc atcggatgag gataggagcg gcgggatcat tcacaaccag     180
41 ttcgtgcaaa tcttcttcta cgtcctgtac gccacggtct ttgtcctggg tgtcttcgga     240
43 aatgtcctgg tttgctacgt agttctgagg aatcgggcca tgcagactgt gaccaatata     300
45 ttcatcacga atctggccct gtcggacata ttgctctgcg tcctggcggt gccatttact     360
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49 tttgcccagg gatgcagcat ctacatatcc acgctgaccc tcacctcgat tgccatcgat     480
51 cggtacttcg ttatcatata ccccttccat ccgcgcatga gctctccac ctgcatcggg     540
53 atcatagtga gcatctgggt gatagccctg ctggccaccg ttccctacgg catgtacatg     600
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67 tcgagacggg aggaggcgga tcgggatcgc aagaagcgca ccaaccgcat gctcatcgcc    1020
69 atggtggcgg tattcggact cagctggctg cccatcaatg tggtcaacat attcgatgac    1080
71 ttcgatgaca agtccaacga gtggcgcttc tacatcctat tcttctttgt ggcccactct    1140
73 attgccatga gctccacctg ctacaatccc ttcctgtacg cctggctgaa cgagaacttc    1200
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81 atcacccagg agacctgtct gcccaaggag aagctgctga ttatccccag ggagccgact  1440
83 tacggcaatg gcacgggtgc cgtgtcgcca atccttagcg ggcgcggcat taacgccgcc  1500
85 ctggtgcacg gtggcgacca tcagatgcac cagctgcagc cgtcacacca tcaacaggtg  1560
87 gagctgacga ggcgaatccg ccggcggaca gacgagacgg acggggatta cctggactcc  1620
89 ggcgacgagc agaccgtgga ggtgcgcttc agcgagacgc cgttcgtcag cacggataat  1680
91 accaccggga tcagcattct ggagacgagt acgagtcact gccaggactc ggatgtgatg  1740
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110             20                  25                  30
113 Thr Ser Pro Gly Thr Thr Ser Ala Ile Leu Ala Asp Val Ala Ala Ser
114         35                  40                  45
117 Asp Glu Asp Arg Ser Gly Gly Ile Ile His Asn Gln Phe Val Gln Ile
118     50                  55                  60
121 Phe Phe Tyr Val Leu Tyr Ala Thr Val Phe Val Leu Gly Val Phe Gly
122 65                  70                  75                  80
125 Asn Val Leu Val Cys Tyr Val Val Leu Arg Asn Arg Ala Met Gln Thr
126             85                  90                  95
129 Val Thr Asn Ile Phe Ile Thr Asn Leu Ala Leu Ser Asp Ile Leu Leu
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133 Cys Val Leu Ala Val Pro Phe Thr Pro Leu Tyr Thr Phe Met Gly Arg
134         115                 120                 125
137 Trp Ala Phe Gly Arg Ser Leu Cys His Leu Val Ser Phe Ala Gln Gly
138     130                 135                 140
141 Cys Ser Ile Tyr Ile Ser Thr Leu Thr Leu Thr Ser Ile Ala Ile Asp
142 145                 150                 155                 160
145 Arg Tyr Phe Val Ile Ile Tyr Pro Phe His Pro Arg Met Lys Leu Ser
146             165                 170                 175
149 Thr Cys Ile Gly Ile Ile Val Ser Ile Trp Val Ile Ala Leu Leu Ala
150             180                 185                 190
153 Thr Val Pro Tyr Gly Met Tyr Met Lys Met Thr Asn Glu Leu Val Asn
154         195                 200                 205
157 Gly Thr Gln Thr Gly Asn Glu Thr Leu Val Glu Ala Thr Leu Met Leu
158     210                 215                 220
161 Asn Gly Ser Phe Val Ala Gln Gly Ser Gly Phe Ile Glu Ala Pro Asp
162 225                 230                 235                 240
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166             245                 250                 255
169 Thr Gly Pro Glu Met Pro Tyr Val Arg Val Tyr Cys Glu Glu Asn Trp
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178     290             295             300
181 Ser Val Lys Leu Asn Gln Arg Ala Arg Ala Lys Pro Gly Ser Lys Ser
182 305             310             315             320
185 Ser Arg Arg Glu Glu Ala Asp Arg Asp Arg Lys Lys Arg Thr Asn Arg
186         325             330             335
189 Met Leu Ile Ala Met Val Ala Val Phe Gly Leu Ser Trp Leu Pro Ile
190         340             345             350
193 Asn Val Val Asn Ile Phe Asp Asp Phe Asp Asp Lys Ser Asn Glu Trp
194     355             360             365
197 Arg Phe Tyr Ile Leu Phe Phe Phe Val Ala His Ser Ile Ala Met Ser
198     370             375             380
201 Ser Thr Cys Tyr Asn Pro Phe Leu Tyr Ala Trp Leu Asn Glu Asn Phe
202 385             390             395             400
205 Arg Lys Glu Phe Lys His Val Leu Pro Cys Phe Asn Pro Ser Asn Asn
206         405             410             415
209 Asn Ile Ile Asn Ile Thr Arg Gly Tyr Asn Arg Ser Asp Arg Asn Thr
210         420             425             430
213 Cys Gly Pro Arg Leu His His Gly Lys Gly Asp Gly Gly Met Gly Gly
214         435             440             445
217 Gly Ser Leu Asp Ala Asp Asp Gln Asp Glu Asn Gly Ile Thr Gln Glu
218     450             455             460
221 Thr Cys Leu Pro Lys Glu Lys Leu Leu Ile Ile Pro Arg Glu Pro Thr
222 465             470             475             480
225 Tyr Gly Asn Gly Thr Gly Ala Val Ser Pro Ile Leu Ser Gly Arg Gly
226         485             490             495
229 Ile Asn Ala Ala Leu Val His Gly Gly Asp His Gln Met His Gln Leu
230         500             505             510
233 Gln Pro Ser His His Gln Gln Val Glu Leu Thr Arg Arg Ile Arg Arg
234         515             520             525
237 Arg Thr Asp Glu Thr Asp Gly Asp Tyr Leu Asp Ser Gly Asp Glu Gln
238     530             535             540
241 Thr Val Glu Val Arg Phe Ser Glu Thr Pro Phe Val Ser Thr Asp Asn
242 545             550             555             560
245 Thr Thr Gly Ile Ser Ile Leu Glu Thr Ser Thr Ser His Cys Gln Asp
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258 <211> LENGTH: 1445
259 <212> TYPE: DNA
260 <213> ORGANISM: D. melanogaster
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271 tggtaccaca tgctcatcag catgtacggc gtgctaatcg tcttcggcgc cctaggcaac  300
273 accctggttg ttatagccgt catccggaag cccatcatgc gcactgctcg caatctgttc  360
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281 gacagatatc aggtgatcgt gtaccccacg cgggacagcc tgcagttcgt gggcgcggtg  600
283 acgatcctgg cggggatctg ggcactggca ctgctgctgg cctcgccgct gttcgtctac  660
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287 atcccgtact gcattgagga ctggccaagt cgcaacgggc gcttctacta ctcgatcttc  780
289 tcgctgtgcg tacaatacct ggtgcccatc ctgatcgtct cggtggcata cttcgggatc  840
291 tacaacaagc tgaagagccg catcaccgtg gtggctgtgc aggcgtcctc cgctcagcgg  900
293 aaggtggagc gggggcggcg gatgaagcgc accaactgcc tactgatcag catcgccatc  960
295 atctttggcg tttcttggct gccgctgaac tttttcaacc tgtacgcgga catggagcgc 1020
297 tcgccggtca ctcagagcat gctagtccgc tacgccatct gccacatgat cggcatgagc 1080
299 tccgcctgct ccaacccgtt gctctacggc tggctcaacg acaacttccg taaagaattt 1140
301 caagaactgc tctgccgttg ctcagacact aatgttgctc ttaacggtca cacgacaggc 1200
303 tgcaacgtcc aggcggcggc gcgcaagcgt cgcaagttgg cgccgaact ctccaaaggc 1260
305 gaactcaagc tgctggggcc aggcggcgcc cagagcggta ccgccggcgg ggaaggcggt 1320
307 ctggcggcca ccgacttcat gaccggccac cacgagggcg gactgcgcag cgccataacc 1380
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317 <213> ORGANISM: D. melanogaster
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326             20                  25                  30
329 Ile Asn Gly Thr Leu Pro Trp Ile Val Gly Phe Phe Phe Gly Val Ile
330             35                  40                  45
333 Ala Ile Thr Gly Phe Phe Gly Asn Leu Leu Val Ile Leu Val Val Val
334         50                  55                  60
337 Phe Asn Asn Asn Met Arg Ser Thr Thr Asn Leu Met Ile Val Asn Leu
338 65                  70                  75                  80
341 Ala Ala Ala Asp Leu Met Phe Val Ile Leu Cys Ile Pro Phe Thr Ala
342             85                  90                  95
345 Thr Asp Tyr Met Val Tyr Tyr Trp Pro Tyr Gly Arg Phe Trp Cys Arg
346             100                 105                 110
349 Ser Val Gln Tyr Leu Ile Val Val Thr Ala Phe Ala Ser Ile Tyr Thr
350             115                 120                 125
353 Leu Val Leu Met Ser Ile Asp Arg Phe Leu Ala Val Val His Pro Ile
354         130                 135                 140
357 Arg Ser Arg Met Met Arg Thr Glu Asn Ile Thr Leu Ile Ala Ile Val
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366                   180             185                190
369 Met Cys Thr Phe Thr Thr Asn Asp Phe Leu Gly Pro Arg Thr Tyr Gln
370             195             200                205
373 Val Thr Phe Phe Ile Ser Ser Tyr Leu Leu Pro Leu Met Ile Ile Ser
374       210             215                220
377 Gly Leu Tyr Met Arg Met Ile Met Arg Leu Trp Arg Gln Gly Thr Gly
378 225                   230             235                240
381 Val Arg Met Ser Lys Glu Ser Gln Arg Gly Arg Lys Arg Val Thr Arg
382             245             250                255
385 Leu Val Val Val Val Ile Ala Phe Ala Ser Leu Trp Leu Pro Val
386             260             265                270
389 Gln Leu Ile Leu Leu Leu Lys Ser Leu Asp Val Ile Glu Thr Asn Thr
390       275             280                285
393 Leu Thr Lys Leu Val Ile Gln Val Thr Ala Gln Thr Leu Ala Tyr Ser
394       290             295                300
397 Ser Ser Cys Ile Asn Pro Leu Leu Tyr Ala Phe Leu Ser Glu Asn Phe
398 305             310             315                320
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425 aggccgctgg acccggtgct tatcgatagg ttcctgagca acagggcggt ggacagcccc     240
427 tggtaccaca tgctcatcag catgtacggc gtgctaatcg tcttcggcgc cctaggcaac     300
429 accctggttg ttatagccgt catccggaag cccatcatgc gcactgctcg caatctgttc     360
431 atcctcaacc tggccatatc ggacctactt ttatgcctag tcaccatgcc gctgaccttg     420
433 atggagatcc tgtccaagta ctggccctac ggctcctgct ccatcctgtg caaaacgatt     480
435 gccatgctgc aggcactttg tattttcgtg tcgacaatat ccataacggc cattgccttc     540
437 gacagatatc aggtgatcgt gtaccccacg cgggacagcc tgcagttcgt gggcgcggtg     600
439 acgatcctgg cggggatctg ggcactggca ctgctgctgg cctcgccgct gttcgtctac     660
441 aaggagctga tcaacacaga cacgccggca ctcctgcagc agatcggcct gcaggacacg     720
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445 tcgctgtgcg tacaatacct ggtgcccatc ctgatcgtct cggtggcata cttcgggatc     840
447 tacaacaagc tgaagagccg catcaccgtg gtggctgtgc aggcgtcctc cgctcagcgg     900
449 aaggtggagc gggggcggcg gatgaagcgc accaactgcc tactgatcag catcgccatc     960
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453 tcgccggtca ctcagagcat gctagtccgc tacgccatct gccacatgat cggcatgagc    1080
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/11/2006
PATENT APPLICATION: **US/10/523,893A**   TIME: 12:16:20

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01112006\J523893A.raw**

ɛase Note:
ɛ of n and/or Xaa have been detected in the Sequence Listing. Please review the
ʈuence Listing to ensure that a corresponding explanation is presented in the <220>
<223> fields of each sequence which presents at least one n or Xaa.

ʈ#:50; Xaa Pos. 3
ʈ#:88; Xaa Pos. 1
ʈ#:120; Xaa Pos. 1
ʈ#:138; Xaa Pos. 1
ʈ#:151; Xaa Pos. 1
ʈ#:177; Xaa Pos. 1
ʈ#:182; Xaa Pos. 1
ʈ#:184; Xaa Pos. 1
ʈ#:185; Xaa Pos. 1
ʈ#:232; Xaa Pos. 1

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3213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:0
3667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:0
3923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:0
4111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:0
4479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:0
4555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:182 after pos.:0
4589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184 after pos.:0
4609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:185 after pos.:0
5189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:232 after pos.:0
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**Raw Sequence Listing before editing,
for reference only**

RAW SEQUENCE LISTING   DATE: 01/09/2006
PATENT APPLICATION: US/10/523,893A   TIME: 12:05:37

Input Set : A:\PHRM0002-105.ST25.txt
Output Set: N:\CRF4\01092006\J523893A.raw

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 3 <110> APPLICANT: Lowery, David E.
 4        Smith, Valdin G.
 5        Kubiak, Teresa M.
 6        Larsen, Martha J.
 8 <120> TITLE OF INVENTION: Drosophila G Protein Coupled Receptors, Nucleic Acids, and
 9        Methods Related to the Same
11 <130> FILE REFERENCE: PHRM0002-105
13 <140> CURRENT APPLICATION NUMBER: US 10/523,893A
14 <141> CURRENT FILING DATE: 2005-02-04
16 <150> PRIOR APPLICATION NUMBER: US 10/283,423
17 <151> PRIOR FILING DATE: 2002-10-30
19 <150> PRIOR APPLICATION NUMBER: US 09/693,746
20 <151> PRIOR FILING DATE: 2000-10-20
22 <150> PRIOR APPLICATION NUMBER: US 09/425,676
23 <151> PRIOR FILING DATE: 1999-10-22
25 <160> NUMBER OF SEQ ID NOS: 232
27 <170> SOFTWARE: PatentIn version 3.3
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ERRORED SEQUENCES

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      5182 <220> FEATURE:
      5183 <221> NAME/KEY: MOD_RES
      5184 <222> LOCATION: (1)..(1)
      5185 <223> OTHER INFORMATION: Xaa is pGlu
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E--> 5193  - 1 -
E--> 5195  - 17 -
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VERIFICATION SUMMARY   DATE: 01/09/2006
PATENT APPLICATION: **US/10/523,893A**   TIME: 12:05:38

Input Set : **A:\PHRM0002-105.ST25.txt**
Output Set: **N:\CRF4\01092006\J523893A.raw**

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L:3213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:0
L:3667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:0
L:3923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:0
L:4111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:0
L:4479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:0
L:4555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:182 after pos.:0
L:4589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184 after pos.:0
L:4609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:185 after pos.:0
L:5189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:232 after pos.:0
L:5193 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:232
L:5195 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:232
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